

TA-F420/F420A

SERVICE MANUAL

AEP Model
UK Model
TA-F420A

Canadian Model
West Germany Model
E Model
TA-F420

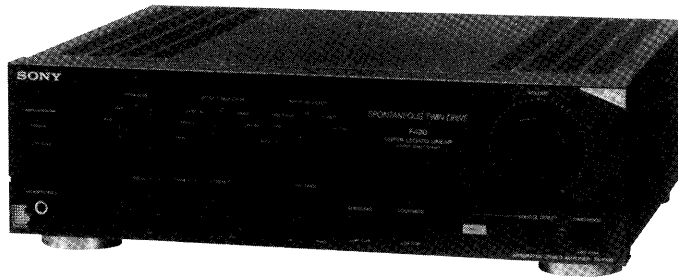


photo : TA-F420

SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)

TA-F420A : AEP, UK MODEL

DIN, 1 kHz	4 ohms	90 W + 90 W
	8 ohms	90 W + 90 W
20 Hz - 20 kHz THD 0.05%	8 ohms	70 W + 70 W

TA-F420 : Canadian, West Germany, E Model

DIN, 1 kHz, 8 ohms	90 W + 90 W
20 Hz - 20 kHz THD 0.05%, 8 ohms	70 W + 70 W

Input

Input jack		Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	MM	Phono	2.0 mV	50 kilohms	83 dB (A, 2.5 mV)
	MC		170 μ V	100 ohms	73 dB (A, 2.5 mV)
TUNER, CD, VIDEO/AUX, TAPE/DAT		Phono	150 mV	50 kilohms	100 dB (150 mV)

Output

Output jack	Jack type	Voltage/impedance
REC OUT	Phono	Voltage 150 mV Impedance 1 kohms
SPEAKERS	—	AEP, UK Model : Accepts speakers of 4 - 6 ohms/8 - 16 ohms. Canadian, West Germany, E Model : Accepts speakers of 8 - 16 ohms.
HEAD-PHONES	Stereo phone	Accepts low and high impedance headphones.

Tone controls

	Response	Turnover frequency
BASS	± 10 dB (100 Hz)	500 Hz
TREBLE	± 10 dB (15 kHz)	3 kHz

Loudness (Attenuation 30 dB)

+6 dB (100 Hz)
+3 dB (10 kHz)

Subsonic filter 6 dB/octave, attenuation below 15Hz
Harmonic distortion Less than 0.05% at rated output
Intermodulation (IM) distortion (60 Hz:7 kHz = 4:1)
Less than 0.05% at rated output

— Continued on next page —

INTEGRATED STEREO AMPLIFIER
SONY®



Frequency response

PHONO: RIAA equalization curve
 ± 0.5 dB
 TUNER, CD, VIDEO/AUX, TAPE1,
 TAPE2/DAT: 7 Hz – 100 kHz ± 3 dB

Residual noise

Less than 170 μ V (network A)

Damping factor

40 (8 ohms, 1 kHz)

General

System

Preamplifier: Low-noise, high-gain
 equalizer amplifier
 Power amplifier: Pure-complementary
 SEPP OCL power amplifier with all
 stages directly coupled

Power requirements

AEP, West Germany Model :
 220 V AC, 50 Hz
 U.K. model: 240 V AC, 50 Hz
 Canadian Model : 120 V AC, 60 Hz
 E Model : 120 V,
 220 V or 240 V AC adjustable,
 50/60Hz

Power consumption

AEP, West Germany Model : 160 W
 UK Model : 370 W
 Canadian Model : 315 VA
 E Model : 155 W

Dimensions

Approx. 430 \times 135 \times 375 mm (w/h/d)
 (17 \times 5 $\frac{3}{8}$ \times 14 $\frac{7}{8}$ inches)

Weight

Approx. 8.9 kg (19 lb 10 oz)

Design and specifications subject to change without notice.

Note

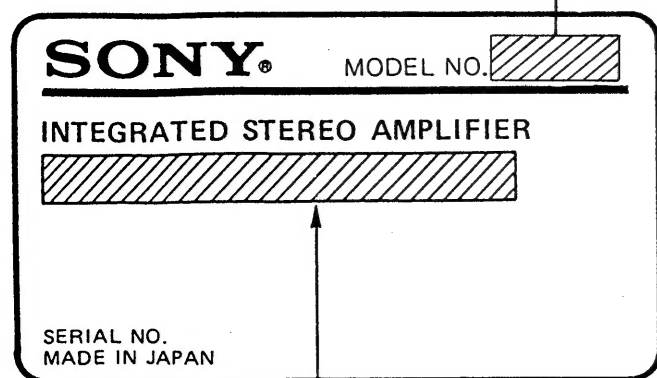
This appliance conforms with EEC directive 87/308/EEC
 regarding interference suppression.

MODEL IDENTIFICATION

– Specification Label –

AEP, UK Model : TA-F420A

West Germany, Canadian, E Model : TA-F420



AEP, West Germany Model : AC: 220V~50/60Hz 160W
 UK Model : AC: 240V~50/60Hz 370W
 Canadian Model : AC: 120V 60H 315VA
 E Model : AC: 120/220/240V~
 50/60Hz 160W

SAFETY CHECK-OUT

After correcting the original service problem,
 perform the following safety check before releasing
 the set to the customer:

Check the antenna terminals, metal trim, "metallized"
 knobs, screws, and all other exposed metal parts for
 AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to
 earth ground and from all exposed metal parts to any
 exposed metal part having a return to chassis, must
 not exceed 0.5 mA (500 microamperes). Leakage
 current can be measured by any one of three
 methods.

1. A commercial leakage tester, such as the
 Simpson 229 or RCA WT-540A. Follow the
 manufacturers' instructions to use these instru-
 ments.
2. A battery-operated AC milliammeter. The Data
 Precision 245 digital multimeter is suitable for
 this job.
3. Measuring the voltage drop across a resistor by
 means of a VOM or battery-operated AC volt-
 meter. The "limit" indication is 0.75 V, so
 analog meters must have an accurate low-
 voltage scale. The Simpson 250 and Sanwa
 SH-63Trd are examples of a passive VOM that
 is suitable. Nearly all battery operated digital
 multimeters that have a 2V AC range are
 suitable. (See Fig. A)

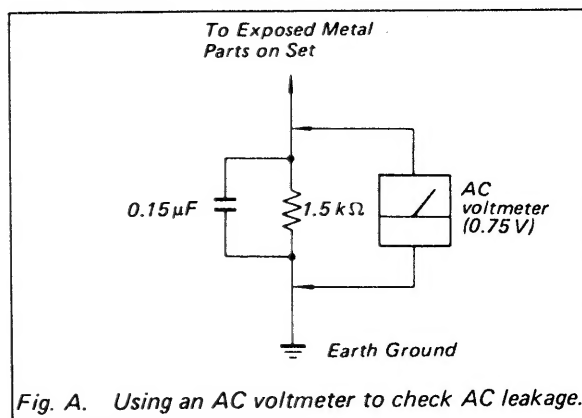


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

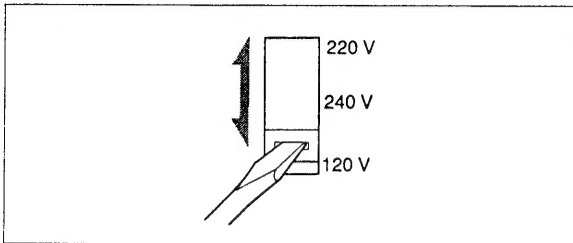
COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED
 LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS
 AND IN THE PARTS LIST ARE CRITICAL TO SAFE
 OPERATION. REPLACE THESE COMPONENTS WITH
 SONY PARTS WHOSE PART NUMBERS APPEAR AS
 SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
 LISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
 À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ
 SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE
 DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ
 DE FONCTIONNEMENT. NE REMPLACER CES COM-
 POSANTS QUE PAR DES PIÈCES SONY DONT LES
 NUMÉROS SONT DONNÉS DANS CE MANUEL OU
 DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

Precautions

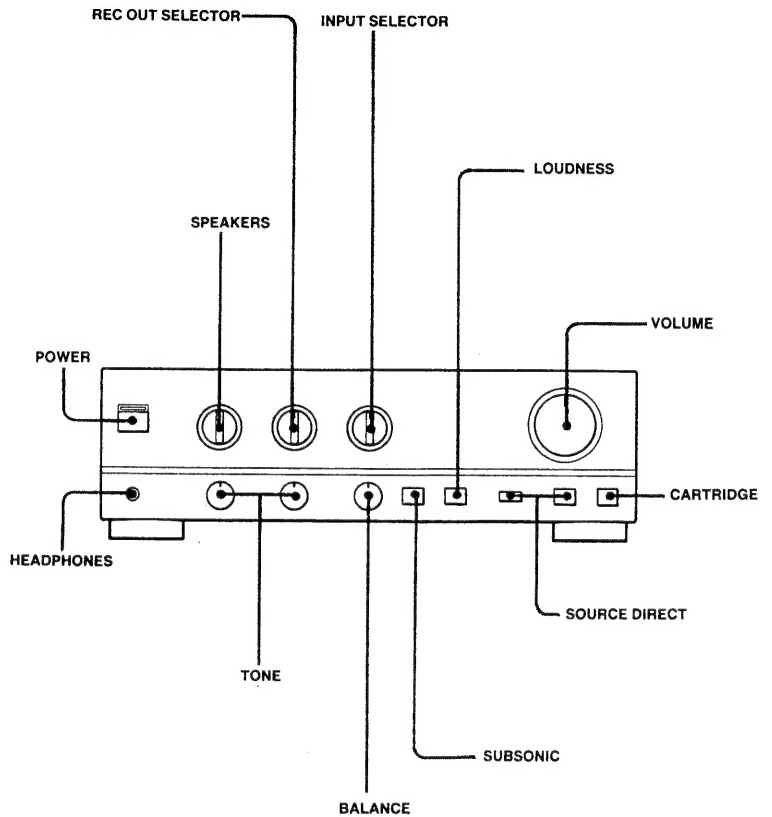


On operating voltage

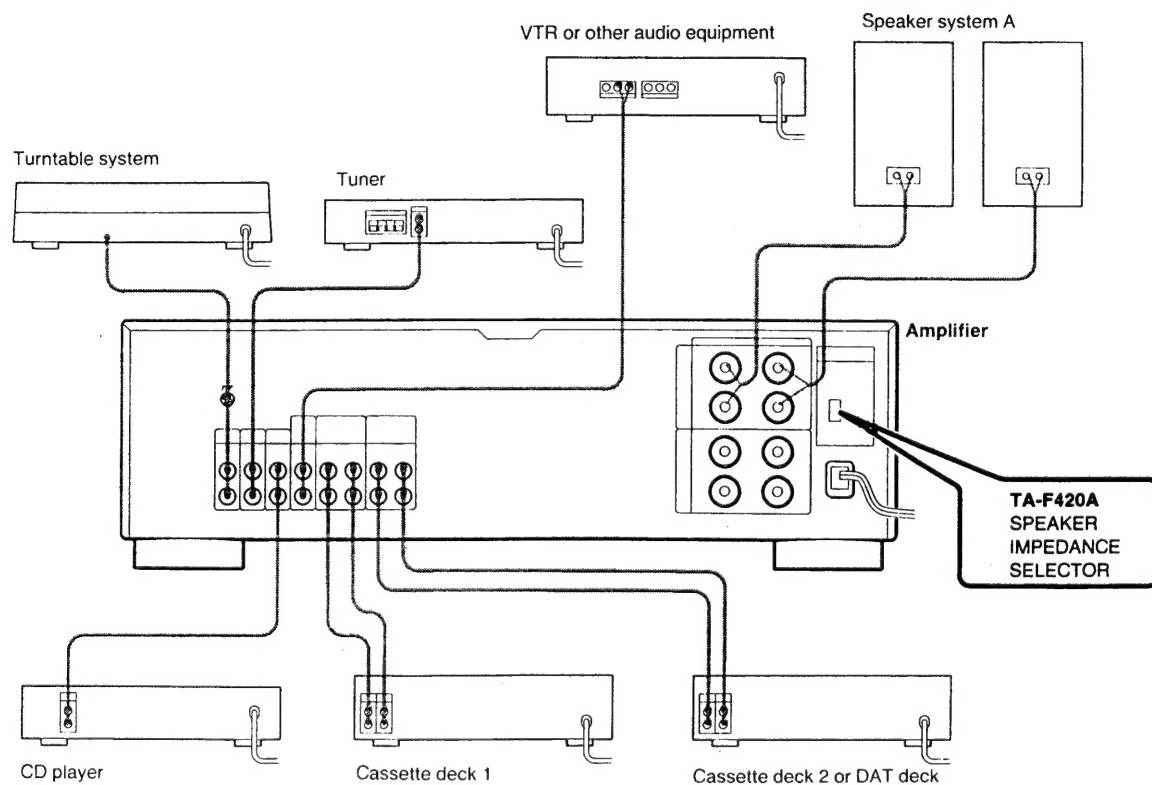
Before operating the unit, check that the operating voltage of your unit is identical with the voltage of your local power supply.

Where purchased	Operating voltage
Canadian Model	120 V AC
UK Model	240 V AC
AEP, West Germany Model	220 V AC
E Model	120 V, 220 V or 240 V AC adjustable The voltage selector is located on the rear panel. If the selector must be reset, disconnect the AC power cord and set the selector to the proper voltage of your local power supply.

PARTS IDENTIFICATIONS



Connections

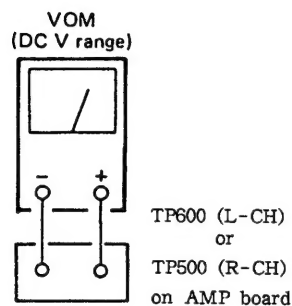


REVISED

SECTION 2 ELECTRICAL ADJUSTMENTS

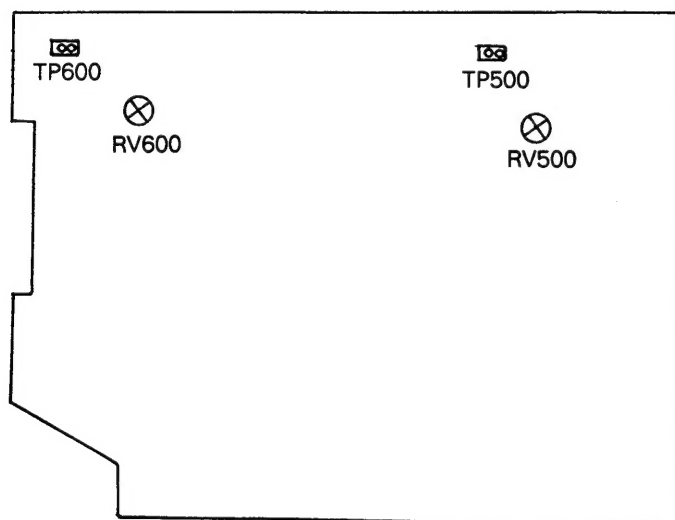
NOTE :

- Adjustment should be performed 10 minutes after the POWER switch is on (POWER ON).



Adjustment Location:

AMP BOARD – Component Side –



Bias Current Adjustment

Note : This adjustment should be performed under thermal stable condition. Before starting the adjustment, wait for more than an hour after switch off for cooling, and perform the adjustment within one minute after switching on.

Procedure :

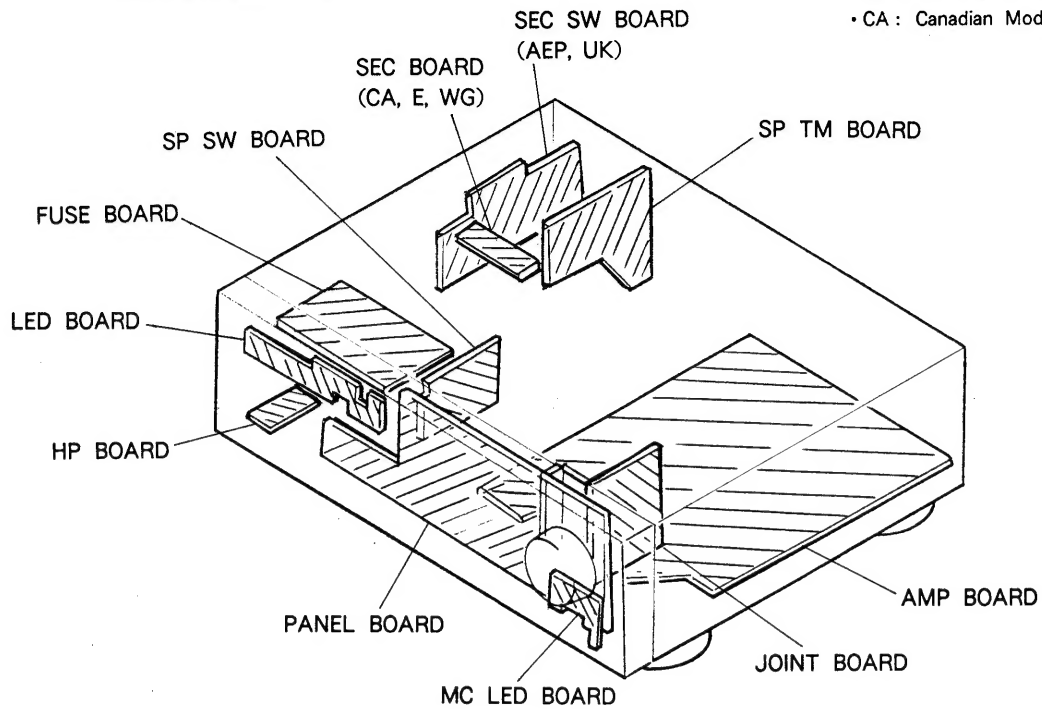
1. Set main volume to minimum position.
2. Switch on the set.
3. Adjust RV500 (RV600 for left channel) so that the voltage across TP500 and TP600 becomes the value indicated below.

Adjustment values :

$2.5\text{mV} \pm 0.3\text{mV}$

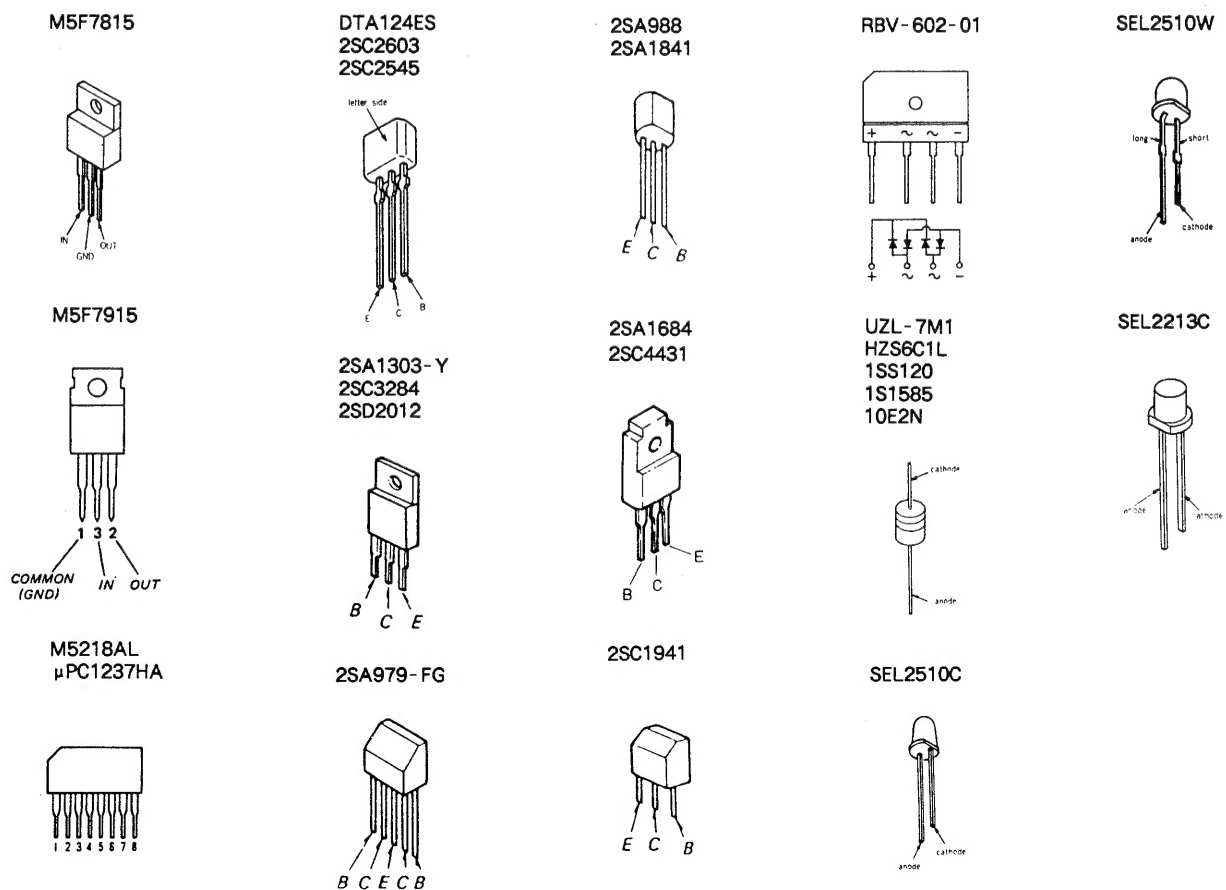
SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



- WG : West Germany Model
- CA : Canadian Model

3-2. SEMICONDUCTOR LEAD LAYOUTS



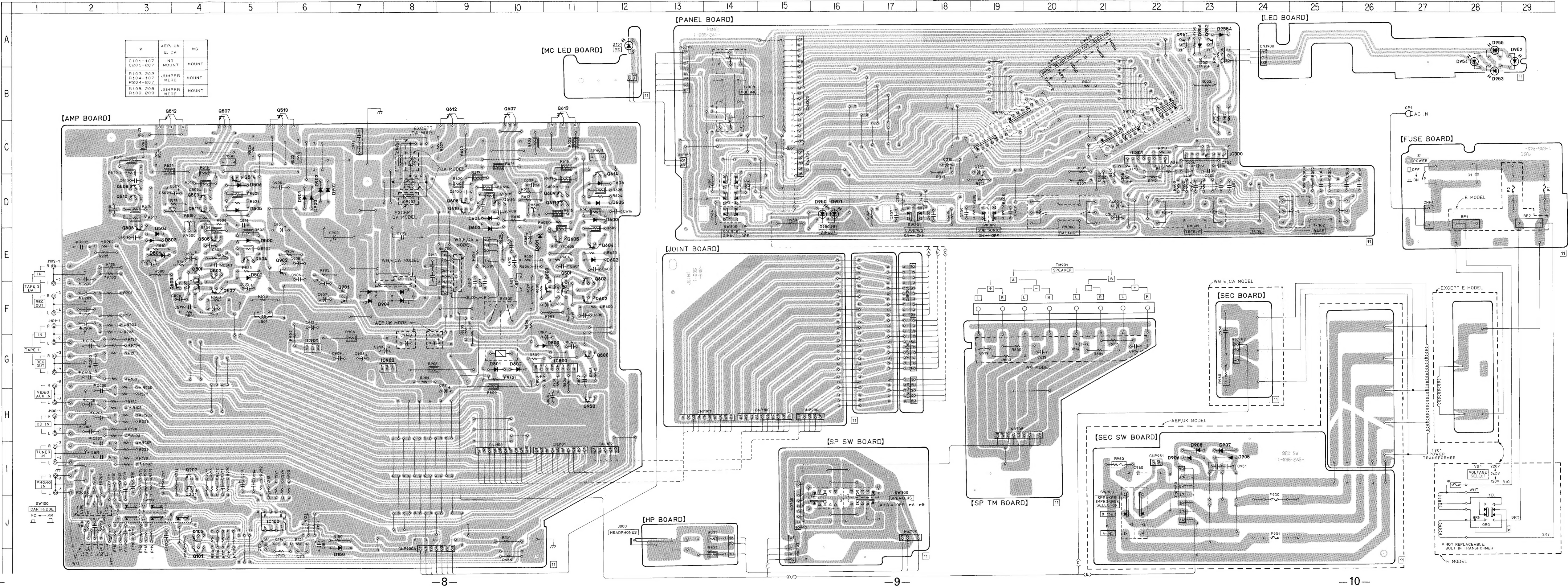
3-3. PRINTED WIRING BOARDS

• Semiconductor Location

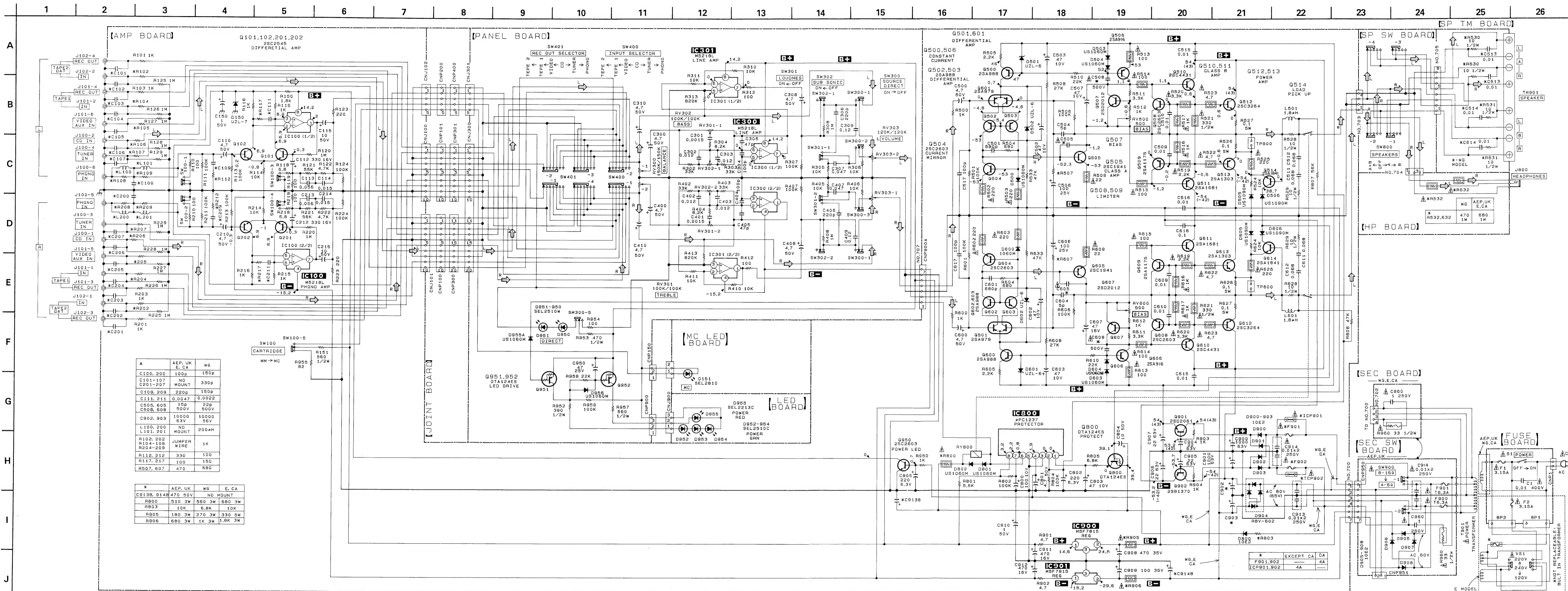
Ref. No.	Location	Ref. No.	Location
D150	K-6	IC901	G-6
D151	A-12		
D500	E-5	Q101	K-4
D501	E-3	Q102	J-4
D502	E-5	Q201	I-4
D503	E-3	Q202	I-4
D504	E-3	Q500	F-3
D505	D-5	Q501	F-11
D506	D-5	Q502	F-4
D600	D-11	Q503	E-4
D601	E-10	Q504	E-5
D602	E-11	Q505	E-4
D603	E-9	Q506	E-3
D604	E-11	Q507	E-4
D605	D-11	Q508	D-4
D606	D-11	Q509	D-4
D800	G-10	Q510	D-3
D801	G-9	Q511	D-4
D802	G-10	Q512	B-3
D900	D-6	Q513	B-5
D901	D-6	Q514	D-5
D902	D-6	Q600	F-10
D903	D-6	Q601	E-4
D904	F-7	Q602	F-11
D905	I-23	Q603	F-11
D906	I-23	Q604	E-11
D907	I-23	Q605	E-11
D908	I-23	Q606	D-10
D950	D-16	Q607	B-10
D951	D-16	Q608	D-9
D952	A-29	Q609	D-11
D953	B-28	Q610	D-9
D954	A-28	Q611	D-11
D955A	A-23	Q612	B-9
D955	A-28	Q613	B-11
D956	A-23	Q614	D-11
IC100	J-5	Q901	F-7
IC300	C-23	Q902	E-5
IC301	C-22	Q950	H-11
IC800	G-10	Q951	A-22
IC900	G-7	Q952	A-23

Note:
• : parts extracted from the component side.

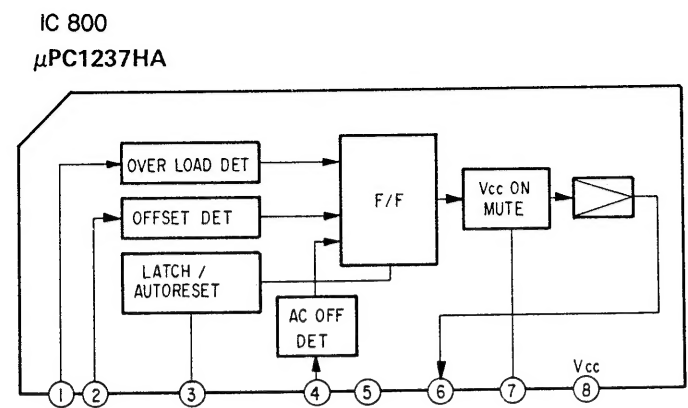
• WG : West Germany Model
• CA : Canadian Model



3-4. SCHEMATIC DIAGRAM



3-5. IC BLOCK DIAGRAM



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted, pF: μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4W$ or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ :** B+ Line
- B- :** B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark: AEP, UK Model
- () : West Germany, E, Canadian Model
- Voltages are taken with a VOM (impedance 10M Ω)
- Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : CD
- WG : West Germany Model
- CA : Canadian Model

SECTION 4

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.



- Color Indication of Appearance Parts
Example:


(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color

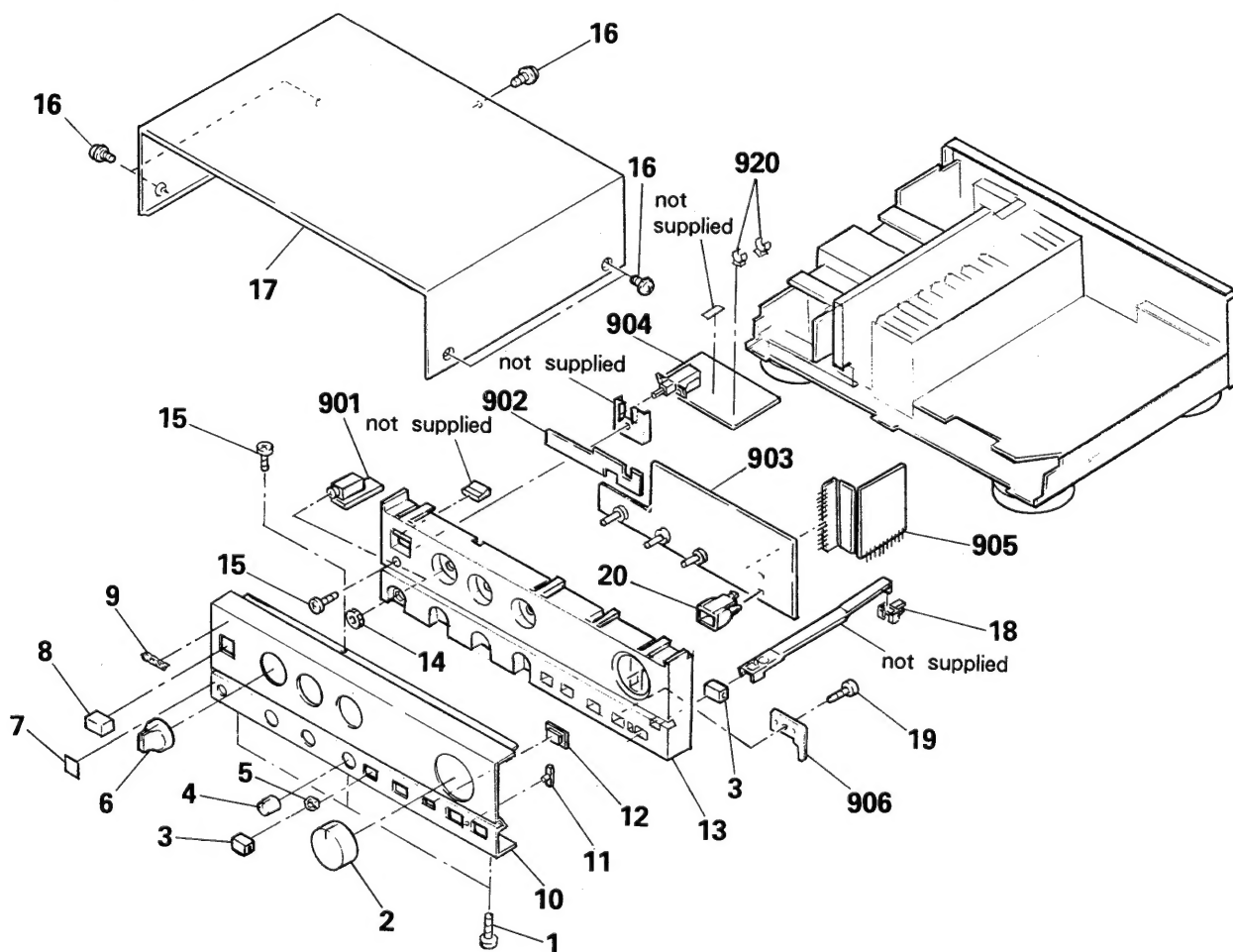
↑
Parts' Color

- WG : West Germany Model

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

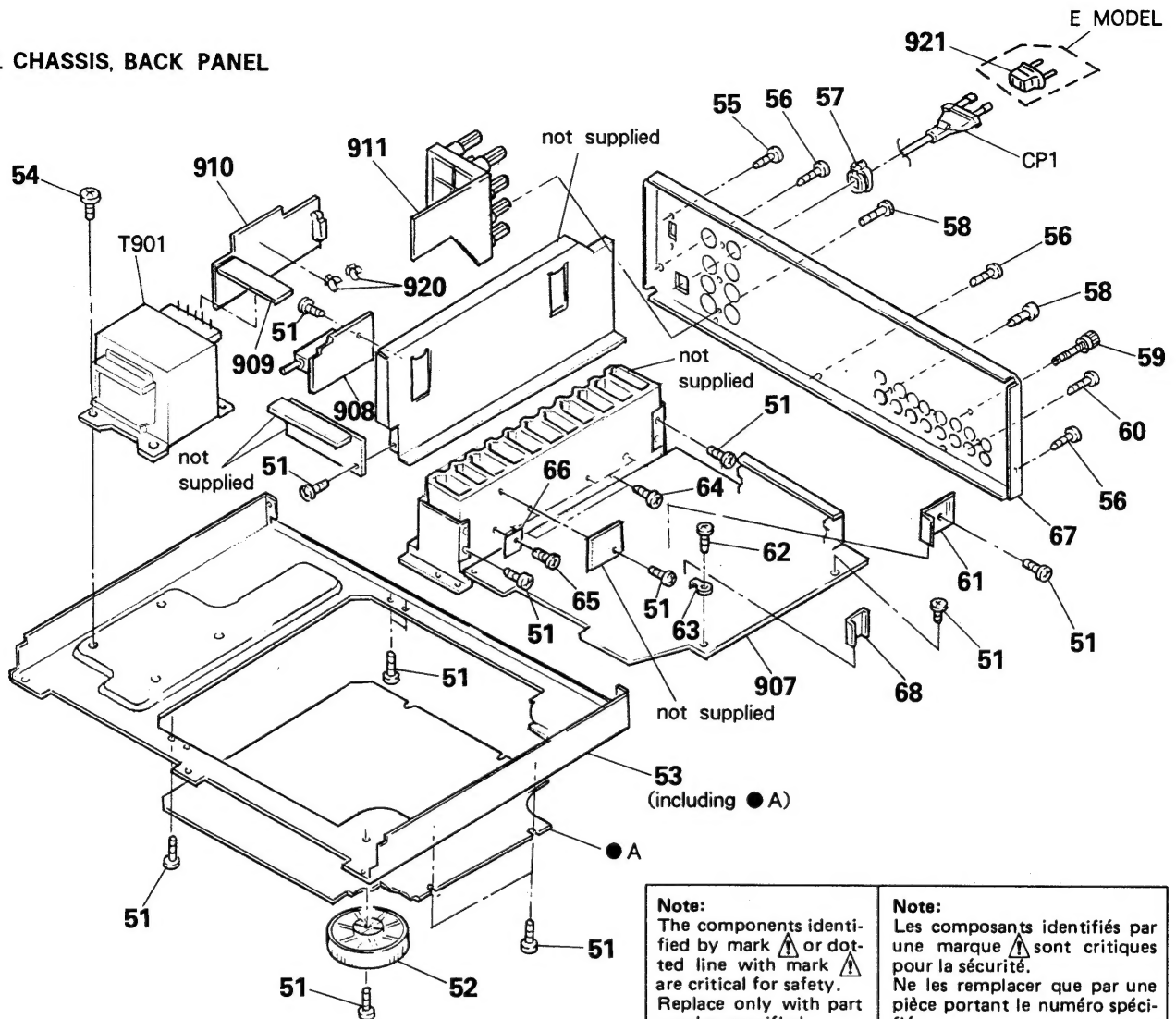
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CASE ,PANEL



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-685-21	SCREW (+BV 3X8)		17	*4-924-920-71	(WG,Canadian,E)...CASE	
2	4-929-299-01	KNOB (47)			4-927-838-01	(AEP,UK).....CASE	
3	4-908-875-01	KNOB, SQUARE		18	4-866-342-00	JOINT (B), KNOB	
4	4-916-746-11	KNOB (DIA. 21), ROUND		19	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
5	4-864-307-00	RING		20	*4-921-389-01	HOUSE	
6	4-916-729-01	KNOB (DIA.29)		901	*1-635-237-11	PC BOARD, HP	
7	*3-703-710-41	STICKER, SONY SYMBOL (12)		902	*1-635-239-11	PC BOARD, LED	
8	4-929-289-01	BUTTON		903	*A-4334-714-A	(AEP,UK,E,Canadian)...MOUNTED PCB, PANEL	
9	4-908-848-01	EMBLEM, SONY			*A-4334-725-A	(WG).....MOUNTED PCB, PANEL	
10	4-929-293-32	PANEL, FRONT		904	*1-635-243-11	PC BOARD, FUSE	
11	3-684-018-01	COVER, LAMP, REC		905	*1-635-242-11	PC BOARD, JOINT	
12	4-929-284-01	PLATE, INDICATION		906	*1-635-238-11	PC BOARD, MC LED	
13	4-929-295-13	PANEL (BASE)		920	1-533-213-31	HOLDER, FUSE	
14	4-931-902-01	NUT (M12X1)					
15	7-682-548-04	SCREW +BVTT 3X8 (S)					
16	3-704-366-01	SCREW (CASE) (M3X8)					

4-2. CHASSIS, BACK PANEL



No.	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)	
52	X-3304-938-2 X-3304-950-1	(WG,AEP,UK).....FOOT ASSY (Canadian,E).....FOOT ASSY	
53	*4-931-618-22	CHASSIS	
54	7-682-560-04	SCREW +BVTT 4X6 (S)	
55	7-685-534-19 7-685-646-79	(E).....SCREW +BVTP 3X8 (AEP,UK)...SCREW +BTP 2.6X8	
56	7-682-548-09	SCREW +BVTT 3X8 (S)	
57	*3-703-244-00 *3-703-571-11	(AEP,UK,WG,Canadian) ...BUSHING (2104), CORD (E).....BUSHING (S), CORD	
58	7-621-849-00	SCREW, TAPPING	
59	3-706-165-00	SCREW	
60	7-685-646-79	SCREW +BVTP 3X8	
61	*4-931-903-11	HEAT SINK (DI)	
62	3-703-685-21	SCREW (+BV 3X8)	
63	4-870-539-00	PLATE, GROUND	
64	7-682-549-09	SCREW +B 3X10	
65	7-682-550-09	SCREW +B 3X12	
66	4-911-232-01	SHEET, INSULATING	

No.	Part No.	Description	Remarks
67	*4-931-984-11 *4-931-984-21 *4-931-984-31 *4-931-984-41 *4-931-984-51	(AEP).....PANEL, BACK (WG).....PANEL, BACK (Canadian)...PANEL, BACK (E).....PANEL, BACK (UK).....PANEL, BACK	
68	*3-309-144-21	HEAT SINK	
907	*A-4334-708-A *A-4334-719-A *A-4334-721-A *A-4334-727-A	(AEP,UK)....MOUNTED PCB, AMP (Canadian)...MOUNTED PCB, AMP (WG).....MOUNTED PCB, AMP (E).....MOUNTED PCB, AMP	
908	*1-635-236-11	PC BOARD, SP SW	
909	*1-635-240-11	(WG,E,Canadian)...PC BOARD, SEC	
910	*1-635-245-11	(AEP,UK)...PC BOARD, SEC SW	
911	*1-635-235-11	PC BOARD, SP TM	
920	1-533-213-31	HOLDER, FUSE	
921	Δ.1-569-007-11	(E)...ADAPTOR, CONVERSION 2P	
CP1	Δ.1-575-105-11	(Canadian)...CORD, POWER	
CP1	Δ.1-575-651-11	(AEP,WG)....CORD, POWER	
CP1	Δ.1-575-652-11	(UK).....CORD, POWER	
CP1	Δ.1-575-653-11	(E).....CORD, POWER	
T901	Δ.1-450-092-11	(AE).....TRANSFORMER, POWER	
T901	Δ.1-450-093-11	(Canadian)...TRANSFORMER, POWER	
T901	Δ.1-450-094-11	(WG).....TRANSFORMER, POWER	
T901	Δ.1-450-095-11	(E).....TRANSFORMER, POWER	
T901	Δ.1-450-096-11	(UK).....TRANSFORMER, POWER	

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ MF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:

UA...: μ A..., UPA...: μ PA...,

UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• WG: West Germany Model

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-635-237-11	PC BOARD, HP	C201	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
902	*1-635-239-11	PC BOARD, LED	C202	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
903	*A-4334-714-A	(AEP,UK,E,Canadian)...MOUNTED PCB, PANEL	C203	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
	*A-4334-725-A	(WG).....MOUNTED PCB, PANEL	C204	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
904	*1-635-243-11	PC BOARD, FUSE	C205	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
905	*1-635-242-11	PC BOARD, JOINT	C206	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
906	*1-635-238-11	PC BOARD, MC LED	C207	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V
907	*A-4334-708-A	(AEP,UK).....MOUNTED PCB, AMP	C209	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V
	*A-4334-719-A	(Canadian)...MOUNTED PCB, AMP	C209	1-162-286-31	(AEP,UK,E,Canadian) ...CERAMIC 220PF 10% 50V
	*A-4334-721-A	(WG).....MOUNTED PCB, AMP			
	*A-4334-727-A	(E).....MOUNTED PCB, AMP	C210	1-123-369-00	ELECT 4.7MF 20% 50V
908	*1-635-236-11	PC BOARD, SP SW	C211	1-161-375-00	(WG)...CERAMIC 0.0022MF 30% 16V
909	*1-635-240-11	(WG,E,Canadian)...PC BOARD, SEC	C211	1-161-377-00	(AEP,UK,E,Canadian) ...CERAMIC 0.0047MF 30% 16V
910	*1-635-245-11	(AEP,UK)...PC BOARD, SEC SW			
911	*1-635-235-11	PC BOARD, SP TM	C212	1-126-541-11	ELECT 330MF 20% 16V
920	1-533-213-31	HOLDER, FUSE	C213	1-130-492-11	MYLAR 0.056MF 5% 50V
921	Δ 1-569-007-11	(E)...ADAPTOR, CONVERSION 2P	C214	1-130-485-00	MYLAR 0.015MF 5% 50V
BP1	1-535-139-00	(E)...BASE POST 22MM	C215	1-126-059-11	ELECT 10MF 20% 50V
BP2	1-535-139-00	(E)...BASE POST 22MM	C300	1-123-369-00	ELECT 4.7MF 20% 50V
C1	Δ 1-161-744-00	CERAMIC 0.01MF 400V	C301	1-106-347-00	MYLAR 0.0015MF 5% 50V
C100	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C302	1-130-484-00	MYLAR 0.012MF 5% 50V
C100	1-162-282-31	(AEP,UK,E,Canadian) ...CERAMIC 100PF 10% 50V	C303	1-130-484-00	MYLAR 0.012MF 5% 50V
C101	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C304	1-164-070-11	CERAMIC 100PF 5% 50V
C102	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C305	1-164-062-11	CERAMIC 47PF 5% 50V
C103	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C306	1-162-286-31	CERAMIC 220PF 10% 50V
C104	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C307	1-130-491-00	MYLAR 0.047MF 5% 50V
C105	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C308	1-123-369-00	ELECT 4.7MF 20% 50V
C106	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C309	1-130-496-00	MYLAR 0.12MF 5% 50V
C107	1-162-288-31	(WG)...CERAMIC 330PF 10% 50V	C310	1-123-369-00	ELECT 4.7MF 20% 50V
C109	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C400	1-123-369-00	ELECT 4.7MF 20% 50V
C109	1-162-286-31	(AEP,UK,E,Canadian) ...CERAMIC 220PF 10% 50V	C401	1-106-347-00	MYLAR 0.0015MF 5% 50V
C110	1-123-369-00	ELECT 4.7MF 20% 50V	C402	1-130-484-00	MYLAR 0.012MF 5% 50V
C111	1-161-375-00	(WG)...CERAMIC 0.0022MF 30% 16V	C403	1-130-484-00	MYLAR 0.012MF 5% 50V
C111	1-161-377-00	(AEP,UK,E,Canadian) ...CERAMIC 0.0047MF 30% 16V	C404	1-164-070-11	CERAMIC 100PF 5% 50V
C112	1-126-541-11	ELECT 330MF 20% 16V	C405	1-164-062-11	CERAMIC 47PF 5% 50V
C113	1-130-492-11	MYLAR 0.056MF 5% 50V	C406	1-162-286-31	CERAMIC 220PF 10% 50V
C114	1-130-485-00	MYLAR 0.015MF 5% 50V	C407	1-130-491-00	MYLAR 0.047MF 5% 50V
C115	1-126-059-11	ELECT 10MF 20% 50V	C408	1-123-369-00	ELECT 4.7MF 20% 50V
C150	1-123-380-00	ELECT 1MF 20% 50V	C409	1-130-496-00	MYLAR 0.12MF 5% 50V
C200	1-162-284-31	(WG)...CERAMIC 150PF 10% 50V	C410	1-123-369-00	ELECT 4.7MF 20% 50V
C200	1-162-282-31	(AEP,UK,E,Canadian) ...CERAMIC 100PF 10% 50V	C500	1-123-369-00	ELECT 4.7MF 20% 50V
			C501	1-164-083-11	CERAMIC 680PF 10% 50V
			C502	1-124-446-11	ELECT 47MF 20% 10V
			C503	1-124-446-11	ELECT 47MF 20% 10V
			C504	1-164-041-11	CERAMIC 5PF 0.25PF 50V

Ref.No.	Part No.	Description			
C505	△.1-161-959-00	(WG)...CERAMIC 22PF	10%	500V	
C505	△.1-102-316-00	(AEP,UK,E,Canadian) ...ELECT 15PF	5%	500V	
C506	1-123-333-00	ELECT 100MF	20%	25V	
C507	1-123-332-00	ELECT 47MF	20%	16V	
C508	△.1-161-959-00	(WG)...CERAMIC 22PF	10%	500V	
C509	1-130-483-00	MYLAR 0.01MF	5%	50V	
C510	1-130-483-00	MYLAR 0.01MF	5%	50V	
C511	1-130-493-00	MYLAR 0.068MF	5%	50V	
C512	1-130-493-00	MYLAR 0.068MF	5%	50V	
C513	1-130-483-00	(WG)...MYLAR 0.01MF	5%	50V	
C514	1-130-483-00	(WG)...MYLAR 0.01MF	5%	50V	
C515	1-130-483-00	MYLAR 0.01MF	5%	50V	
C516	1-130-483-00	MYLAR 0.01MF	5%	50V	
C517	1-164-073-11	CERAMIC 100PF	10%	50V	
C600	1-123-369-00	ELECT 4.7MF	20%	50V	
C601	1-164-083-11	CERAMIC 680PF	10%	50V	
C602	1-124-446-11	ELECT 47MF	20%	10V	
C603	1-124-446-11	ELECT 47MF	20%	10V	
C604	1-164-041-11	CERAMIC 5PF	0.25PF	50V	
C605	△.1-161-959-00	(WG)...CERAMIC 22PF	10%	500V	
C605	△.1-102-316-00	(AEP,UK,E,Canadian) ...ELECT 15PF	5%	500V	
C606	1-123-333-00	ELECT 100MF	20%	25V	
C607	1-123-332-00	ELECT 47MF	20%	16V	
C608	△.1-161-959-00	(WG)...CERAMIC 22PF	10%	500V	
C609	1-130-483-00	MYLAR 0.01MF	5%	50V	
C610	1-130-483-00	MYLAR 0.01MF	5%	50V	
C611	1-130-493-00	MYLAR 0.068MF	5%	50V	
C612	1-130-493-00	MYLAR 0.068MF	5%	50V	
C613	1-130-483-00	(WG)...MYLAR 0.01MF	5%	50V	
C614	1-130-483-00	(WG)...MYLAR 0.01MF	5%	50V	
C615	1-130-483-00	MYLAR 0.01MF	5%	50V	
C616	1-130-483-00	MYLAR 0.01MF	5%	50V	
C617	1-164-073-11	CERAMIC 100PF	10%	50V	
C800	1-124-443-00	ELECT 100MF	20%	10V	
C801	1-124-927-11	ELECT 4.7MF	20%	50V	
C802	1-126-176-11	ELECT 220MF	20%	6.3V	
C803	1-124-446-11	ELECT 47MF	20%	10V	
C804	1-123-875-11	ELECT 10MF	20%	50V	
C805	1-126-176-11	ELECT 220MF	20%	6.3V	
C900	1-124-922-11	ELECT 1000MF	20%	63V	
C901	1-124-922-11	ELECT 1000MF	20%	63V	
C902	1-125-596-11	(WG)...ELECT(BLOCK) 10000MF	20%	56V	
C902	1-125-479-11	(AEP,UK,E,Canadian) ...ELECT 10000MF	20%	63V	
C903	1-125-596-11	(WG)...ELECT(BLOCK) 10000MF	20%	56V	
C903	1-125-479-11	(AEP,UK,E,Canadian) ...ELECT 10000MF	20%	63V	
C904	1-124-929-11	ELECT 22MF	20%	63V	
C905	1-124-929-11	ELECT 22MF	20%	63V	
C906	1-124-929-11	ELECT 22MF	20%	63V	
C907	1-124-929-11	ELECT 22MF	20%	63V	
C908	1-126-104-11	ELECT 470MF	20%	35V	
C909	1-126-052-11	ELECT 100MF	20%	35V	

Ref.No.	Part No.	Description			
C910	1-126-044-11	ELECT 1MF	20%	50V	
C911	1-126-103-11	ELECT 470MF	20%	16V	
C912	1-126-103-11	ELECT 470MF	20%	16V	
C913A	△.1-102-394-11	CERAMIC 0.01MF		250V	
C913B	1-124-913-11	(AEP,UK)...ELECT 470MF	20%	50V	
C914A	△.1-102-394-11	CERAMIC 0.01MF		250V	
C914B	1-124-913-11	(AEP,UK)...ELECT 470MF	20%	50V	
C950	1-124-477-11	ELECT 47MF	20%	25V	
C951	△.1-102-394-11	(AEP,UK)...CERAMIC 0.01MF		250V	
C960	△.1-130-798-00	FILM 1MF	10%	250V	
CNJ300	1-565-961-11	SOCKET, CONNECTOR 20P			
CNJ301*	1-561-650-00	SOCKET, CONNECTOR 5P			
CNJ900*	1-565-835-11	SOCKET, CONNECTOR 3P			
CNP1	*1-564-321-00	PIN, CONNECTOR 2P			
CNP100	1-565-419-11	PIN, CONNECTOR 10P			
CNP101	1-565-419-11	PIN, CONNECTOR 10P			
CNP150*	1-564-336-00	PIN, CONNECTOR 2P			
CNP200	1-506-906-11	PIN, CONNECTOR 5P			
CNP300	1-565-419-11	PIN, CONNECTOR 10P			
CNP301	1-565-419-11	PIN, CONNECTOR 10P			
CNP400	1-506-906-11	PIN, CONNECTOR 5P			
CNP900*	1-564-510-11	PLUG, CONNECTOR 7P			
CNP900A1	1-568-577-11	PIN, CONNECTOR (PC BOARD) 3P			
CNP950*	1-564-915-11	(AEP,UK)...PIN, CONNECTOR 7P			
CNP951*	1-564-517-11	(AEP,UK)...PIN, CONNECTOR 2P			
CP1	△.1-575-105-11	(Canadian)...CORD, POWER			
CP1	△.1-575-651-11	(AEP,WG)...CORD, POWER			
CP1	△.1-575-652-11	(UK)...CORD, POWER			
CP1	△.1-575-653-11	(E)...CORD, POWER			
D150	8-719-000-84	DIODE UZL-7M1			
D151	8-719-311-61	DIODE SEL2810D-D			
D500	8-719-912-20	DIODE 1SS120			
D501	8-719-933-39	DIODE HZS6C1L			
D502	8-719-933-39	DIODE HZS6C1L			
D503	8-719-912-20	DIODE 1SS120			
D504	8-719-912-20	DIODE 1SS120			
D505	8-719-815-85	DIODE 1S1585			
D506	8-719-815-85	DIODE 1S1585			
D600	8-719-912-20	DIODE 1SS120			
D601	8-719-933-39	DIODE HZS6C1L			
D602	8-719-933-39	DIODE HZS6C1L			
D603	8-719-912-20	DIODE 1SS120			
D604	8-719-912-20	DIODE 1SS120			
D605	8-719-815-85	DIODE 1S1585			
D606	8-719-815-85	DIODE 1S1585			
D800	8-719-200-77	DIODE 10E2N			
D801	8-719-912-20	DIODE 1SS120			
D802	8-719-912-20	DIODE 1SS120			
D900	8-719-200-77	DIODE 10E2N			
D901	8-719-200-77	DIODE 10E2N			
D902	8-719-200-77	DIODE 10E2N			
D903	8-719-200-77	DIODE 10E2N			
D904	△.8-719-302-38	DIODE RBV-602-01			
D905	8-719-200-77	(AEP,UK)...DIODE 10E2N			
D906	8-719-200-77	(AEP,UK)...DIODE 10E2N			
D907	8-719-200-77	(AEP,UK)...DIODE 10E2N			
D908	8-719-200-77	(AEP,UK)...DIODE 10E2N			

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TA-F420/F420A

Ref.No.	Part No.	Description
D950	8-719-304-16	LED SEL2510W-D
D951	8-719-304-16	LED SEL2510W-D
D952	8-719-304-16	LED SEL2510W-D
D953	8-719-304-16	LED SEL2510W-D
D954	8-719-304-16	LED SEL2510W-D
D955A	8-719-912-20	DIODE 1SS120
D955	8-719-302-23	LED SEL2213C-C
D956	8-719-912-20	DIODE 1SS120
F1	△.1-532-237-00	(AEP,UK,WG)...FUSE, TIME LAG (3.15A)
F1	△.1-532-747-11	(Canadian)...FUSE, GLASS TUBE
F2	△.1-532-237-00	(E).....FUSE, TIME LAG (3.15A)
F900	△.1-532-506-51	(AEP,UK)...FUSE, TIME LAG (6.3A)
F901A	△.1-532-506-51	(AEP,UK)...FUSE, TIME LAG (6.3A)
F901	△.1-532-782-11	(Canadian)...FUSE, MICRO (4A)
F902	△.1-532-782-11	(Canadian)...FUSE, MICRO (4A)
IC100	8-759-981-98	IC RC4560DD
IC300	8-759-634-50	IC M5218AL
IC301	8-759-634-50	IC M5218AL
IC800	8-759-111-68	IC UPC1237HA
IC900	8-759-604-34	IC M5F7815
IC901	8-759-604-52	IC M5F7915
ICP901A	△.1-532-845-21	(AEP,UK,E,WG)...LINK, IC (4A)
ICP902A	△.1-532-845-21	(AEP,UK,E,WG)...LINK, IC (4A)
J100	1-565-320-11	JACK, PIN 6P
J101	1-565-320-11	JACK, PIN 6P
J102	1-565-258-11	JACK, PIN 4P
J800	1-507-863-51	JACK, LARGE TYPE
L100	1-413-101-11 (WG)...	COIL, INPUT 220UH
L101	1-413-101-11 (WG)...	COIL, INPUT 220UH
L200	1-413-101-11 (WG)...	COIL, INPUT 220UH
L201	1-413-101-11 (WG)...	COIL, INPUT 220UH
L501	*1-420-872-00	COIL, AIR CORE
L601	*1-420-872-00	COIL, AIR CORE
Q101	8-729-354-52	TRANSISTOR 2SC2545-E
Q102	8-729-354-52	TRANSISTOR 2SC2545-E
Q201	8-729-354-52	TRANSISTOR 2SC2545-E
Q202	8-729-354-52	TRANSISTOR 2SC2545-E
Q500	8-729-108-14	TRANSISTOR 2SA988F
Q501	8-729-620-18	TRANSISTOR 2SA979-FG
Q502	8-729-108-14	TRANSISTOR 2SA988F
Q503	8-729-108-14	TRANSISTOR 2SA988F
Q504	8-729-620-05	TRANSISTOR 2SC2603-EF
Q505	8-729-142-01	TRANSISTOR 2SC1941-LK
Q506	8-729-191-62	TRANSISTOR 2SA1371
Q507	8-729-209-15	TRANSISTOR 2SD2012
Q508	8-729-620-05	TRANSISTOR 2SC2603-EF
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q510	8-729-141-46	TRANSISTOR 2SC4431-LK
Q511	8-729-141-37	TRANSISTOR 2SA1684-LK
Q512	8-729-302-84	TRANSISTOR 2SC3284-Y
Q513	8-729-302-81	TRANSISTOR 2SA1303-Y
Q514	8-729-140-84	TRANSISTOR 2SA1841-PAFAEA
Q600	8-729-108-14	TRANSISTOR 2SA988F
Q601	8-729-620-18	TRANSISTOR 2SA979-FG

Ref.No.	Part No.	Description
Q602	8-729-108-14	TRANSISTOR 2SA988F
Q603	8-729-108-14	TRANSISTOR 2SA988F
Q604	8-729-620-05	TRANSISTOR 2SC2603-EF
Q605	8-729-142-01	TRANSISTOR 2SC1941-LK
Q606	8-729-191-62	TRANSISTOR 2SA1371
Q607	8-729-209-15	TRANSISTOR 2SD2012
Q608	8-729-620-05	TRANSISTOR 2SC2603-EF
Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q610	8-729-141-46	TRANSISTOR 2SC4431-LK
Q611	8-729-141-37	TRANSISTOR 2SA1684-LK
Q612	8-729-302-84	TRANSISTOR 2SC3284-Y
Q613	8-729-302-81	TRANSISTOR 2SA1303-Y
Q614	8-729-140-84	TRANSISTOR 2SA1841-PAFAEA
Q800	8-729-900-63	TRANSISTOR DTA124ES
Q901	8-729-925-69	TRANSISTOR 2SD2061EF
Q902	8-729-924-90	TRANSISTOR 2SB1370-EF
Q950	8-729-620-05	TRANSISTOR 2SC2603-EF
Q951	8-729-900-63	TRANSISTOR DTA124ES
Q952	8-729-900-63	TRANSISTOR DTA124ES
R101	1-247-713-11	CARBON 1K 5% 1/4W
R102	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R103	1-247-713-11	CARBON 1K 5% 1/4W
R104	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R105	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R106	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R107	1-247-713-11	(WG)...CARBON 1K 5% 1/4W
R108	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R109	1-249-417-11	(WG)...CARBON 1K 5% 1/4W
R110	1-249-405-11	CARBON 100 5% 1/4W
R111	1-259-476-11	CARBON 100K 5% 1/6W
R112	1-249-405-11	(WG)...CARBON 100 5% 1/4W
R112	1-249-411-11	(AEP,UK,E,Canadian) ...CARBON 330 5% 1/4W
R113	1-259-476-11	CARBON 100K 5% 1/6W
R114	1-259-452-11	CARBON 10K 5% 1/6W
R115	1-249-417-11	CARBON 1K 5% 1/4W
R116	1-249-417-11	CARBON 1K 5% 1/4W
R117	1-249-405-11	(AEP,UK,E,Canadian) ...CARBON 100 5% 1/4W
R117	1-249-407-11	(WG)...CARBON 150 5% 1/4W
R118	1-249-391-11	CARBON 6.8 5% 1/4W
R119	1-249-405-11	CARBON 100 5% 1/4W
R120	1-247-903-00	CARBON 1M 5% 1/4W
R121	1-259-470-11	CARBON 56K 5% 1/6W
R122	1-259-444-11	CARBON 4.7K 5% 1/6W
R123	1-249-409-11	CARBON 220 5% 1/4W
R124	1-259-476-11	CARBON 100K 5% 1/6W
R125	1-246-545-00	CARBON 1M 5% 1/4W
R126	1-246-545-00	CARBON 1M 5% 1/4W
R127	1-246-545-00	CARBON 1M 5% 1/4W
R128	1-246-545-00	CARBON 1M 5% 1/4W
R129	1-246-545-00	CARBON 1M 5% 1/4W
R150	1-247-716-11	CARBON 1.8K 5% 1/4W
R151	1-247-749-11	CARBON 560 5% 1/2W
R201	1-247-713-11	CARBON 1K 5% 1/4W

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Ref.No.	Part No.	Description				
R202	1-247-713-11	(WG)...CARBON	1K	5%	1/4W	
R203	1-247-713-11	CARBON	1K	5%	1/4W	
R204	1-247-713-11	(WG)...CARBON	1K	5%	1/4W	
R205	1-247-713-11	(WG)...CARBON	1K	5%	1/4W	
R206	1-247-713-11	(WG)...CARBON	1K	5%	1/4W	
R207	1-247-713-11	(WG)...CARBON	1K	5%	1/4W	
R208	1-249-417-11	(WG)...CARBON	1K	5%	1/4W	
R209	1-249-417-11	(WG)...CARBON	1K	5%	1/4W	
R210	1-249-405-11	CARBON	100	5%	1/4W	
R211	1-259-476-11	CARBON	100K	5%	1/6W	
R212	1-249-405-11	(WG)...CARBON	100	5%	1/4W	
R212	1-249-411-11	(AEP,UK,E,Canadian) ...CARBON	330	5%	1/4W	
R213	1-259-476-11	CARBON	100K	5%	1/6W	
R214	1-259-452-11	CARBON	10K	5%	1/6W	
R215	1-249-417-11	CARBON	1K	5%	1/4W	
R216	1-249-417-11	CARBON	1K	5%	1/4W	
R217	1-249-405-11	(AEP,UK,E,Canadian) ...CARBON	100	5%	1/4W	
R217	1-249-407-11	(WG)...CARBON	150	5%	1/4W	
R218	1-249-391-11	CARBON	6.8	5%	1/4W	
R219	1-249-405-11	CARBON	100	5%	1/4W	
R220	1-247-903-00	CARBON	1M	5%	1/4W	
R221	1-259-470-11	CARBON	56K	5%	1/6W	
R222	1-259-444-11	CARBON	4.7K	5%	1/6W	
R223	1-249-409-11	CARBON	220	5%	1/4W	
R224	1-259-476-11	CARBON	100K	5%	1/6W	
R225	1-246-545-00	CARBON	1M	5%	1/4W	
R226	1-246-545-00	CARBON	1M	5%	1/4W	
R227	1-246-545-00	CARBON	1M	5%	1/4W	
R228	1-246-545-00	CARBON	1M	5%	1/4W	
R229	1-246-545-00	CARBON	1M	5%	1/4W	
R302	1-249-435-11	CARBON	33K	5%	1/4W	
R303	1-249-435-11	CARBON	33K	5%	1/4W	
R304	1-249-428-11	CARBON	8.2K	5%	1/4W	
R305	1-249-429-11	CARBON	10K	5%	1/4W	
R306	1-249-429-11	CARBON	10K	5%	1/4W	
R307	1-249-469-11	CARBON	100K	5%	1/4W	
R308	1-247-903-00	CARBON	1M	5%	1/4W	
R310	1-249-429-11	CARBON	10K	5%	1/4W	
R311	1-249-429-11	CARBON	10K	5%	1/4W	
R312	1-249-405-11	CARBON	100	5%	1/4W	
R313	1-249-993-21	CARBON	820K	1%	1/4W	
R402	1-249-435-11	CARBON	33K	5%	1/4W	
R403	1-249-435-11	CARBON	33K	5%	1/4W	
R404	1-249-428-11	CARBON	8.2K	5%	1/4W	
R405	1-249-429-11	CARBON	10K	5%	1/4W	
R406	1-249-429-11	CARBON	10K	5%	1/4W	
R407	1-249-469-11	CARBON	100K	5%	1/4W	
R408	1-247-903-00	CARBON	1M	5%	1/4W	
R410	1-249-429-11	CARBON	10K	5%	1/4W	
R411	1-249-429-11	CARBON	10K	5%	1/4W	
R412	1-249-405-11	CARBON	100	5%	1/4W	
R413	1-249-993-21	CARBON	820K	1%	1/4W	
R500	1-247-713-11	CARBON	1K	5%	1/4W	
R501	1-249-469-11	CARBON	100K	1%	1/4W	

Ref.No.	Part No.	Description				
R502	△.1-247-704-11	CARBON	220	5%	1/4W	F
R503	△.1-247-704-11	CARBON	220	5%	1/4W	F
R504	1-247-711-11	CARBON	680	5%	1/4W	
R505	1-247-717-11	CARBON	2.2K	5%	1/4W	
R506	1-249-469-11	CARBON	100K	1%	1/4W	
R507	1-247-708-11	(AEP,UK,E,Canadian) ...CARBON	470	5%	1/4W	
R507	1-249-919-11	(WG)...CARBON	680	1%	1/4W	
R508	1-249-463-11	CARBON	27K	5%	1/4W	
R509	△.1-247-692-11	CARBON	22	5%	1/4W	F
R510	1-249-462-11	CARBON	22K	5%	1/4W	
R511	1-247-719-11	CARBON	3.3K	5%	1/4W	
R512	1-247-713-11	CARBON	1K	5%	1/4W	
R513	△.1-247-700-11	CARBON	100	5%	1/4W	F
R514	△.1-247-700-11	CARBON	100	5%	1/4W	F
R515	△.1-247-700-11	CARBON	100	5%	1/4W	F
R516	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R517	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R519	△.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R520	△.1-247-719-11	CARBON	3.3K	5%	1/4W	F
R521	△.1-247-745-11	CARBON	330	5%	1/2W	F
R522	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R523	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R524	1-247-725-11	CARBON	10K	5%	1/4W	
R525	△.1-247-704-11	CARBON	220	5%	1/4W	F
R526	1-214-789-00	RES, METAL PLATE	0.1			
R527	1-214-789-00	RES, METAL PLATE	0.1			
R528	1-247-727-11	CARBON	10	5%	1/2W	
R529	1-247-727-11	CARBON	10	5%	1/2W	
R530	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R531	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R532	△.1-215-867-00	(WG)...METAL OXIDE	470	5%	1W	F
R532	△.1-215-868-00	(AEP,UK,E,Canadian) ...METAL OXIDE	680	5%	1W	
R533	1-249-465-11	CARBON	47K	5%	1/4W	
R600	1-247-713-11	CARBON	1K	5%	1/4W	
R601	1-249-469-11	CARBON	100K	1%	1/4W	
R602	△.1-247-704-11	CARBON	220	5%	1/4W	F
R603	△.1-247-704-11	CARBON	220	5%	1/4W	F
R604	1-247-711-11	CARBON	680	5%	1/4W	
R605	1-247-717-11	CARBON	2.2K	5%	1/4W	
R606	1-249-469-11	CARBON	100K	1%	1/4W	
R607	1-247-708-11	(AEP,UK,E,Canadian) ...CARBON	470	5%	1/4W	
R607	1-249-919-11	(WG)...CARBON	680	1%	1/4W	
R608	1-249-463-11	CARBON	27K	5%	1/4W	
R609	△.1-247-692-11	CARBON	22	5%	1/4W	F
R610	1-249-462-11	CARBON	22K	5%	1/4W	
R611	1-247-719-11	CARBON	3.3K	5%	1/4W	
R612	1-247-713-11	CARBON	1K	5%	1/4W	
R613	△.1-247-700-11	CARBON	100	5%	1/4W	F
R614	△.1-247-700-11	CARBON	100	5%	1/4W	F
R615	△.1-247-700-11	CARBON	100	5%	1/4W	F
R616	△.1-247-713-11	CARBON	1K	5%	1/4W	F

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:
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Ref.No.	Part No.	Description				
R617	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R619	△.1-247-717-11	CARBON	2.2K	5%	1/4W	F
R620	△.1-247-719-11	CARBON	3.3K	5%	1/4W	F
R621	△.1-247-745-11	CARBON	330	5%	1/2W	F
R622	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R623	△.1-249-455-11	CARBON	4.7	5%	1/4W	F
R624	1-247-725-11	CARBON	10K	5%	1/4W	
R625	△.1-247-704-11	CARBON	220	5%	1/4W	F
R626	1-214-789-00	RES, METAL PLATE 0.1				
R627	1-214-789-00	RES, METAL PLATE 0.1				
R628	1-247-727-11	CARBON	10	5%	1/2W	
R629	1-247-727-11	CARBON	10	5%	1/2W	
R630	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R631	1-247-727-11	(WG)...CARBON	10	5%	1/2W	
R632	△.1-215-867-00	(WG)...METAL OXIDE	470	5%	1W	F
R632	△.1-215-868-00	(AEP,UK,E,Canadian) ...METAL OXIDE	680	5%	1W	
R633	1-249-465-11	CARBON	47K	5%	1/4W	
R800	△.1-216-479-11	(WG).....METAL OXIDE	560	5%	3W	F
R800	△.1-206-718-00	(AEP,UK).....METAL OXIDE	510	5%	3W	
R800	△.1-215-916-00	(E,Canadian)...METAL OXIDE	680	5%	3W	
R801	1-249-426-11	CARBON	5.6K	5%	1/4W	
R802	1-249-441-11	CARBON	100K	5%	1/4W	
R803	1-249-427-11	(WG)...CARBON	6.8K	5%	1/4W	
R803	△.1-249-429-11	(AEP,UK,E,Canadian) ...CARBON	10K	5%	1/4W	
R804	1-249-441-11	CARBON	100K	5%	1/4W	
R805	1-249-427-11	CARBON	6.8K	5%	1/4W	
R806	1-249-437-11	CARBON	47K	5%	1/4W	
R807	1-249-438-11	CARBON	56K	5%	1/4W	
R901	1-249-455-11	CARBON	4.7	5%	1/4W	
R902	1-249-455-11	CARBON	4.7	5%	1/4W	
R903	1-247-713-11	CARBON	1K	5%	1/4W	
R904	1-247-713-11	CARBON	1K	5%	1/4W	
R905	△.1-215-939-11	(E,Canadian) ...METAL OXIDE	330	5%	5W	
R905	△.1-216-476-11	(AEP,UK)...METAL OXIDE	180	5%	3W	
R905	△.1-216-477-11	(WG).....METAL OXIDE	270	5%	3W	F
R906	△.1-215-916-11	(AEP,UK)...METAL OXIDE	680	5%	3W	
R906	△.1-215-917-11	(WG).....METAL OXIDE	1K	5%	3W	F
R906	△.1-216-482-11	(E,Canadian) ...METAL OXIDE	1.8K	5%	5W	
R950	1-249-417-11	CARBON	1K	5%	1/4W	
R952	1-247-746-11	CARBON	390	5%	1/2W	
R953	1-247-747-11	CARBON	470	5%	1/2W	
R954	1-247-700-11	CARBON	100	5%	1/4W	
R955	1-247-699-11	CARBON	82	5%	1/4W	
R957	1-247-749-11	CARBON	560	5%	1/2W	
R958	1-249-433-11	CARBON	22K	5%	1/4W	
R959	1-249-441-11	CARBON	100K	5%	1/4W	
R960	△.1-212-970-00	FUSIBLE	33	5%	1/2W	F
RV300	1-238-513-11	RES, VAR, CARBON	150K/150K		(BALANCE)	
RV301	1-241-056-11	RES, VAR, CARBON	100K/100K		(TREBLE)	
RV302	1-241-056-11	RES, VAR, CARBON	100K/100K		(BASS)	
RV303	1-238-512-11	RES, VAR, CARBON	120K/120K		(VOLUME)	
RV500	1-237-455-11	RES, ADJ, CARBON	500		(BIAS)	
RV600	1-237-455-11	RES, ADJ, CARBON	500		(BIAS)	
RY800	1-515-356-00	RELAY				
S1	△.1-554-920-21	SWITCH, PUSH (AC POWER)(1 KEY)				
SW100	1-572-357-11	SWITCH, PUSH (CARTRIDGE)				
SW300	1-571-637-21	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)				
SW301	1-571-112-21	SWITCH, PUSH (1 KEY)(LOUDNESS)				
SW302	1-571-112-21	SWITCH, PUSH (1 KEY)(SUBSONIC)				
SW400	1-571-871-11	SWITCH, ROTARY SLIDDE (INPUT)				
SW401	1-571-871-11	SWITCH, ROTARY SLIDDE (REC OUT)				
SW800	1-571-870-11	SWITCH, ROTARY SLIDDE (SP)				
SW900	△.1-571-309-31	(AEP,UK)...SWITCH				
T901	△.1-450-092-11	(AE).....TRANSFORMER, POWER				
T901	△.1-450-093-11	(Canadian)...TRANSFORMER, POWER				
T901	△.1-450-094-11	(WG).....TRANSFORMER, POWER				
T901	△.1-450-095-11	(E).....TRANSFORMER, POWER				
T901	△.1-450-096-11	(UK).....TRANSFORMER, POWER				
TM901	1-537-227-11	(AEP).....TERMINAL BOARD(SP)				
TM901	1-537-228-11	(WG,UK,E,Canadian)...TERMINAL BOARD(SP)				
TP500	*1-535-115-00	TERMINAL				
TP600	*1-535-115-00	TERMINAL				
VS1	△.1-570-307-11	(E)...SWITCH, VOLTAGE CHANGE				

ACCESSORY & PACKING MATERIAL

3-701-630-00	BAG, POLYETHYLENE
*3-703-710-41	STICKER, SONY SYMBOL (12)
3-751-657-11	(AEP,UK,E,Canadian)...MANUAL, INSTRUCTION
3-751-657-41	(AEP).....MANUAL, INSTRUCTION
3-751-657-51	(US).....MANUAL, INSTRUCTION
*4-931-985-01	CUSHION
*4-931-986-01	INDIVIDUAL CARTON

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TA-F420/F420A

SONY SERVICE MANUAL

AEP Model
UK Model

TA-F420A

Canadian Model
West Germany Model
E Model

TA-F420

SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. Modification on AMP Board

1. Modification on AMP Board

• New/Former Distinction

	Former Suffix of board part No. :-11	New Suffix of board part No. :-12
Canadian model AEP model UK model West Germany model E model	Serial No. A700, 001-A700, 100 Serial No. 500, 001-500, 900 Serial No. 600, 001-600, 300 _____ _____	Serial No. A700, 101- Serial No. 500, 901- Serial No. 600, 301- ALL ALL

• Changed Part List

Ref. No.	Suffix of board part No. :-11	Suffix of board part No. :-12
R805	1-249-427-11 CARBON 6.8k 5% 1/4W	1-249-421-11 CARBON 2.2k 5% 1/4W

